RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	
Source: IFWO,	
Date Processed by STIC: 09/27/	2006

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RAW SEQUENCE LISTING DATE: 09/27/2006
PATENT APPLICATION: US/10/566,878 TIME: 14:36:40

Input Set : A:\Sequence Listing of 10_566_878.txt

Output Set: N:\CRF4\09272006\J566878.raw

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4 <110> APPLICANT: VAN ES, Andries Johannes Jozef
      5
              BOUWSTRA, Jan Bastiaan
     6
              TODA, Yuzo
      8 <120> TITLE OF INVENTION: Use of gelatin-like proteins as stabiliser
     10 <130> FILE REFERENCE: NY060155VANES
     12 <140> CURRENT APPLICATION NUMBER: US 10/566,878
C--> 13 <141> CURRENT FILING DATE: 2006-02-02
     15 <150> PRIOR APPLICATION NUMBER: PCT/NL2004/00552
     16 <151> PRIOR FILING DATE: 2003-08-04
     18 <150> PRIOR APPLICATION NUMBER: EP 03077451.7
     19 <151> PRIOR FILING DATE: 2003-08-05
     22 <160> NUMBER OF SEQ ID NOS: 2
     24 <170> SOFTWARE: PatentIn version 3.1
     26 <210> SEQ ID NO: 1
     27 <211> LENGTH: 1464
     28 <212> TYPE: PRT
     29 <213> ORGANISM: unknown
     31 <220> FEATURE:
     32 <223> OTHER INFORMATION: COL1A1
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     44 Glu Asp Ile Pro Pro Ile Thr Cys Val Gln Asn Gly Leu Arg Tyr His
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     48 Asp Arg Asp Val Trp Lys Pro Glu Pro Cys Arg Ile Cys Val Cys Asp
                                55
     52 Asn Gly Lys Val Leu Cys Asp Asp Val Ile Cys Asp Glu Thr Lys Asn
                            70
    56 Cys Pro Gly Ala Glu Val Pro Glu Gly Glu Cys Cys Pro Val Cys Pro
                        85
                                            90
    60 Asp Gly Ser Glu Ser Pro Thr Asp Gln Glu Thr Thr Gly Val Glu Gly
                    100
                                        105
     64 Pro Lys Gly Asp Thr Gly Pro Arg Gly Pro Arg Gly Pro Ala Gly Pro
                                    120
    68 Pro Gly Arg Asp Gly Ile Pro Gly Gln Pro Gly Leu Pro Gly Pro Pro
    72 Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Leu Gly Gly Asn Phe Ala
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    76 Pro Gln Leu Ser Tyr Gly Tyr Asp Glu Lys Ser Thr Gly Gly Ile Ser
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    79 Val Pro Gly Pro Met Gly Pro Ser Gly Pro Arg Gly Leu Pro Gly Pro
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80				180					185					190		
83	Pro	Gly	Ala	Pro	Gly	Pro	Gln	Gly	Phe	Gln	Gly	Pro	Pro	Gly	Glu	Pro
84		-	195		-			200			_		205			
87 (Gly	Glu	Pro	Gly	Ala	Ser	Gly	Pro	Met	Gly	Pro	Arq	Gly	Pro	Pro	Gly
88	-	210		-			215			_		220	-			-
91	Pro	Pro	Gly	Lys	Asn	Gly	Asp	Asp	Gly	Glu	Ala	Gly	Lys	Pro	Gly	Arq
92			•	-		230	-	-	-		235	•			-	240
95	Pro	Gly	Glu	Arq	Gly	Pro	Pro	Gly	Pro	Gln	Gly	Ala	Arq	Gly	Leu	Pro
96		-		_	245			-		250	-		_	-	255	
99 (Gly	Thr	Ala	Gly	Leu	Pro	Gly	Met	Lys	Gly	His	Arq	Gly	Phe	Ser	Gly
100	-			260			•		265	_		_	•	270		•
103	Leu	Asp	Gly	/ Ala	Lys	Gly	Asp	Ala	a Gly	Pro	Ala	a Gly	Pro	Lys	Gly	Glu
104		_	275		_	-	_	280	_			_	285	_	_	
107	Pro	Gly	, Sei	Pro	Gly	Glu	ı Asr	ı Gly	/ Ala	Pro	Gly	/ Glr	Met	: Gly	Pro	Arq
108		290			-		295	_			_	300		-		_
111	Gly	Leu	Pro	Gly	glu	Arc	Gly	Arc	Pro	Gly	, Ala	a Pro	G13	Pro	Ala	Gly
	305			-		310				-	315		-			320
115	Ala	Arg	Gly	/ Asr	Asp	Gly	, Ala	Thr	Gly	, Ala	Ala	a Gly	Pro	Pro	Gly	Pro
116			_		325				-	330		_			335	
119	Thr	Gly	Pro) Ala	Gly	Pro	Pro	Gly	/ Phe	Pro	Gly	/ Ala	val	Gly	Ala	Lys
120		_		340	_			_	345					350		_
123	Gly	Glu	Ala	a Gly	Pro	Glr	Gly	, Pro	Arg	Gly	, Sei	Glu	ı Gly	/ Pro	Gln	Gly
124			355	5			_	360)				365	5		_
127	Val	Arg	Gly	/ Glu	Pro	Gly	Pro	Pro	Gly	Pro	Ala	a Gly	, Ala	a Ala	Gly	Pro
128		370)				375	5				380)			
131	Ala	Gly	Ası	n Pro	Gly	Ala	Asp	Gly	/ Glr	Pro	Gly	/ Ala	Lys	Gly	Ala	Asn
132	385					390	'				395	5				400
135	Gly	Ala	Pro	Gly	, Ile	Ala	Gly	/ Ala	a Pro	Gly	Phe	Pro	Gly	/ Ala	Arg	Gly
136					405	,				410)				415	
139	Pro	Ser	Gly	/ Pro	Gln	Gly	Pro	Gly	/ Gly	Pro	Pro	Gly	r Pro	Lys	Gly	Asn
140				420)				425	;				430)	
144	Ser	Gly	r Glı	ı Pro	Gly	Ala	Pro	Gly	/ Ser	Lys	Gly	/ Asp	Thi	: Gly	Ala	Lys
145			435					440					445			
148	Gly	Glu	Pro	o Gly	Pro	Val	. Gly	v Val	Glr	Gly	Pro	Pro	Gl3	/ Pro	Ala	Gly
149		450					455					460				
152	Glu	Glu	ı Gly	/ Lys	Arg	Gly	Ala	Arg	, Gly	Glu	Pro	Gly	Pro	Thr	Gly	Leu
	465					470					475					480
156	Pro	Gly	Pro	Pro	Gly	Glu	Arg	, Gly	/ Gly	Pro	Gl	/ Ser	Arg	, Gly	Phe	Pro
157					485					490					495	
	Gly	Ala	Asp	Gly	' Val	Ala	Gly	Pro	Lys	Gly	Pro) Ala	Gly	/ Glu	Arg	Gly
161				500					505					510		
	Ser	Pro			Ala	Gly	Pro			Ser	Pro	Gly			Gly	Arg
165	_		515			_	_	520		_		_	525		_	_
	Pro			ı Ala	Gly	Leu		_	, Ala	Lys	Gly			Gly	Ser	Pro
169		530			_	_	535				_	540		_		-
			Pro	Gly	Pro			Lys	Thr	Gly			Gly	Pro	Ala	Gly
	545			_	_	550		_		_	555			_		56.0
	Gln	Asp	Gly	/ Arg			Pro	Pro	Gly			Gly	Ala	Arg	Gly	Gln
177					565					570					575	

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180 Ala Gly Val Met Gly Phe Pro Gly Pro Lys Gly Ala Ala Gly Glu Pro 184 Gly Lys Ala Gly Glu Arg Gly Val Pro Gly Pro Pro Gly Ala Val Gly 185 600 188 Pro Ala Gly Lys Asp Gly Glu Ala Gly Ala Gln Gly Pro Pro Gly Pro 615 192 Ala Gly Pro Ala Gly Glu Arg Gly Glu Gln Gly Pro Ala Gly Ser Pro 196 Gly Phe Gln Gly Leu Pro Gly Pro Ala Gly Pro Pro Gly Glu Ala Gly 645 650 200 Lys Pro Gly Glu Gln Gly Val Pro Gly Asp Leu Gly Ala Pro Gly Pro 660 665 204 Ser Gly Ala Arg Gly Glu Arg Gly Phe Pro Gly Glu Arg Gly Val Gln 675 680 209 Gly Pro Pro Gly Pro Ala Gly Pro Arg Gly Ala Asn Gly Ala Pro Gly 695 213 Asn Asp Gly Ala Lys Gly Asp Ala Gly Ala Pro Gly Ala Pro Gly Ser 710 715 217 Gln Gly Ala Pro Gly Leu Gln Gly Met Pro Gly Glu Arg Gly Ala Ala 730 725 221 Gly Leu Pro Gly Pro Lys Gly Asp Arg Gly Asp Ala Gly Pro Lys Gly 740 745 225 Ala Asp Gly Ser Pro Gly Lys Asp Gly Val Arg Gly Leu Thr Gly Pro 755 760 229 Ile Gly Pro Pro Gly Pro Ala Gly Ala Pro Gly Asp Lys Gly Glu Ser 775 233 Gly Pro Ser Gly Pro Ala Gly Pro Thr Gly Ala Arg Gly Ala Pro Gly 790 795 234 785 237 Asp Arg Gly Glu Pro Gly Pro Pro Gly Pro Ala Gly Phe Ala Gly Pro 805 810 241 Pro Gly Ala Asp Gly Gln Pro Gly Ala Lys Gly Glu Pro Gly Asp Ala 825 245 Gly Ala Lys Gly Asp Ala Gly Pro Pro Gly Pro Ala Gly Pro Ala Gly 249 Pro Pro Gly Pro Ile Gly Asn Val Gly Ala Pro Gly Ala Lys Gly Ala 855 253 Arg Gly Ser Ala Gly Pro Pro Gly Ala Thr Gly Phe Pro Gly Ala Ala 257 Gly Arg Val Gly Pro Pro Gly Pro Ser Gly Asn Ala Gly Pro Pro Gly 885 890 261 Pro Pro Gly Pro Ala Gly Lys Glu Gly Gly Lys Gly Pro Arg Gly Glu 905 265 Thr Gly Pro Ala Gly Arg Pro Gly Glu Val Gly Pro Pro Gly Pro Pro 915 920 269 Gly Pro Ala Gly Glu Lys Gly Ser Pro Gly Ala Asp Gly Pro Ala Gly 935 274 Ala Pro Gly Thr Pro Gly Pro Gln Gly Ile Ala Gly Gln Arg Gly Val 278 Val Gly Leu Pro Gly Gln Arg Gly Glu Arg Gly Phe Pro Gly Leu Pro

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279					965				9,	70				975	5
	Gly	Pro	Ser	Gly	Glu	Pro	Gly L	vs G	ln G	lv P	ro S	er Gl	v Ala	a Sei	r Gly
283	_			980			- 4		85	4			990		•
286	Glu	Arq	Gly	Pro	Pro	Glv	Pro M	et (Glv 1	Pro :	Pro (Gly Le	eu 2	Ala (Gly Pro
287			995			-		000	•			_	005		-
290	Pro	Gly	Glu	Ser	Gly	Arq	Ġlu	Gly	Ala	Pro	Gly	Ala	Glu	Gly	Ser
291		1010			-		1015				•	1020		-	
294	Pro	Gly	Arg	Asp	Gly	Ser	Pro	Gly	Ala	Lys	Gly	Asp	Arq	Gly	Glu
295		1025	_	-	•		1030	-		-	-	1035	Ū	-	
298	Thr	Gly	Pro	Ala	Gly	Pro	Pro	Gly	Ala	Pro	Gly	Ala	Pro	Gly	Ala
299		1040			_		1045	_			-	1050		_	
302	Pro	Gly	Pro	Val	Gly	Pro	Ala	Gly	Lys	Ser	Gly	Asp	Arg	Gly	Glu
303		1055			_		1060	-	_		_	1065	_	_	
306	Thr	Gly	Pro	Ala	Gly	Pro	Ala	Gly	Pro	Val	Gly	Pro	Ala	Gly	Ala
307		1070					1075				_	1080			
310	Arg	Gly	Pro	Ala	Gly	Pro	Gln	Gly	Pro	Arg	Gly	Asp	Lys	Gly	Glu
311		1085					1090					1095			
314	Thr	Gly	Glu	Gln	Gly	Asp	Arg	Gly	Ile	Lys	Gly	His	Arg	Gly	Phe
315		1100					1105					1110			
318	Ser	Gly	Leu	Gln	Gly	Pro	Pro	Gly	Pro	Pro	Gly	Ser	Pro	Gly	Glu
319		1115					1120					1125			
322	Gln	Gly	Pro	Ser	Gly	Ala	Ser		Pro	Ala	Gly	Pro	Arg	Gly	Pro
323		1130					1135					1140			
326	Pro	Gly	Ser	Ala	Gly	Ala	Pro	Gly	Lys	Asp	Gly	Leu	Asn	Gly	Leu
327		1145					1150					1155			
330	Pro	Gly	Pro	Ile	Gly	Pro	Pro	_	Pro	Arg	Gly	Arg	Thr	Gly	Asp
331		1160					1165					1170			
	Ala	-		Val	Gly	Pro	Pro	_	Pro	Pro	Gly		Pro	Gly	Pro
335	_	1175		_	_		1180		_		_	1185	_	_	
	Pro			Pro	Ser	. Ala	Gly		Asp	Phe	Ser		Leu	Pro	GIn
340	_	1190		~1	_		1195		~-	~3	_	1200	_	_	
	Pro			GIU	гуѕ	Ala	His	_	GIY	GIY	Arg	_	Tyr	Arg	Ala
344	7 00	1205		7 ~~	77-1	Wa I	1210 Arg		7~~	7.00	T 011	1215	17 a T	7 00	The
348	Asp	1220		ASII	val	vai	1225		Arg	Asp	пеп	1230	vai	Asp	1111
	Thr			Car	Τ.Δ11	Cor	Gln		Tla	Glu	Λcn		Δνα	Sar	Pro
352	1111	1235	-	Der	neu	Ser	1240		116	Giu	Poli	1245	Arg	SCI	FIO
	Glu			Δra	Lvs	Δen	Pro		Δτα	Thr	Cvs		Δsn	T.e.11	Laze
356	014	1250		****9	1 , 0	ADII	1255		9		Cyb	1260	mp	цец	Lyb
	Met			Ser	Asp	Tro	Lys		Glv	Glu	Tvr		Tle	Asp	Pro
360		1265					1270		0_1		-1-	1275		1100	
	Asn			Cvs	Asn	Leu	Asp		Ile	Lvs	Val		Cvs	Asn	Met
364		1280	_	- 2	•		1285					1290	-1-		
	Glu	Thr		Glu	Thr	Cvs	Val	Tyr	Pro	Thr	Gln	Pro	Ser	Val	Ala
368		1295	_				1300	4	-		_	1305			
	Gln	Lys		Trp	Tyr	Ile	Ser	Lys	Asn	Pro	Lys	Asp	Lys	Arg	His
372		1310		•	•		1315	4			•	1320	4	,	
	Val	Trp	Phe	Gly	Glu	Ser	Met	Thr	Asp	Gly	Phe	Gln	Phe	Glu	Tyr
376		1325		•			1330		-	•		1335			-

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379 Gly Gly Gln Gly Ser Asp Pro Ala Asp Val Ala Ile Gln Leu Thr
       1340
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383 Phe Leu Arg Leu Met Ser Thr Glu Ala Ser Gln Asn Ile Thr Tyr
       1355
                            1360
                                                 1365
387 His Cys Lys Asn Ser Val Ala Tyr Met Asp Gln Gln Thr Gly Asn
388
       1370
                            1375
                                                 1380
391 Leu Lys Lys Ala Leu Leu Leu Lys Gly Ser Asn Glu Ile Glu Ile
       1385.
                            1390
                                                 1395
395 Arg Ala Glu Gly Asn Ser Arg Phe Thr Tyr Ser Val Thr Val Asp
                            1405
396
       1400
                                                 1410
399 Gly Cys Thr Ser His Thr Gly Ala Trp Gly Lys Thr Val Ile Glu
       1415
                            1420
                                                 1425
404 Tyr Lys Thr Thr Lys Thr Ser Arg Leu Pro Ile Ile Asp Val Ala
                                                 1440
                            1435
405
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417 <211> LENGTH: 54
418 <212> TYPE: PRT
419 <213> ORGANISM: unknown
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VERIFICATION SUMMARY

DATE: 09/27/2006

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TIME: 14:36:41

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L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date